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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,315	02/26/2002	Hirofumi Fukuoka	0171-0826P	2798
2292	7590 12/08/2003		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			NGUYEN, NGOC YEN M	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1754	

DATE MAILED: 12/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

. 101		Application No.	Applicant(s)				
Office Action Summary		10/082,315	FUKUOKA ET AL				
		Examiner	Art Unit				
		Ngoc-Yen M. Nguyen	1754				
The MAILING DATE Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondenc address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to com	munication(s) filed on	_•					
2a) This action is FINAL	L. 2b)⊠ This a	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-3</u> is/are _l	pending in the application.						
4a) Of the above cla	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/a	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3</u> is/are ı	D⊠ Claim(s) <u>1-3</u> is/are rejected.						
7) Claim(s) is/a	re objected to.						
8) Claim(s) are	subject to restriction and/or	election requirement.					
Application Papers							
9) The specification is	objected to by the Examine	r.					
10)⊠ The drawing(s) filed	10)⊠ The drawing(s) filed on <u>26 February 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not req	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment(s)							
1) Notice of References Cited (P7 2) Notice of Draftsperson's Paten 3) Notice of Draftsperson's Paten	t Drawing Review (PTO-948)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)				
,	.,.						

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DETAILED ACTION

Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by JP 2001-118,568.

JP '568 discloses SiO_x product with x=1.24, 1.20, 1.18 and BET surface area = 86, 45, 23 (respectively) m²/g (note Examples 1-3, Table 1).

The product of JP '568 anticipates the claimed product.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2001-226,112.

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JP ' 112 discloses SiO_x product wherein x = 0.9-1.8 (note claim 2). This range overlaps the claimed range. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see In re Malagari, 182 U.S.P.Q. 549.

JP '112 further discloses that the SiO_x is formed by heating a mixture of SiO_2 and metal Si powder to a range of 1100-1600°C to form SiO gas and the SiO gas is cooled and deposited on a substrate which is controlled at 200-400°C (note claim 5).

The difference is JP '112 does not specifically disclose the step of adding oxygen.

However, since the SiO formed in the heating step must be converted to SiO_x , and when x is greater than 1, additional oxygen is required to oxidize all the available Si to SiO_x . Thus, It would have been obvious to one of ordinary skill in the art at the time of the invention was made add the necessary amount of oxygen to the process of JP '112 in order to form the desired SiO_x from a gas containing SiO.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (703) 308-2536. The examiner can normally be reached on Part time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (703) 308-3837. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Ngoc-Yen M. Nguyen Primary Examiner

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Nmn 12/1/03